

Date: Sat, 8 Jan 94 00:08:56 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #12
To: Info-Hams

Info-Hams Digest Sat, 8 Jan 94 Volume 94 : Issue 12

Today's Topics:

 "vanity" calls
 Good Service
 Ham club at a University
 Help finding: BPQAX25.EXE
 How does it work?
Limit on amount of homebrew, was ...Re: TOYOTAS AND HAM RIGS
 ORBS\$007.2L.AMSAT
 This Week in Amateur Radio Edition #41
 This Week on Spectrum 01/08/94
 TOYOTAS AND HAM RADIO
 What Kind of Antenna Is This?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 8 Jan 94 01:56:11 GMT
From: ogicse!uwm.edu!cs.utexas.edu!gerald@cc.utexas.edu!astro.as.utexas.edu!
oo7@network.ucsd.edu
Subject: "vanity" calls
To: info-hams@ucsd.edu

gdm@eieio.ualr.edu (G. Douglas Mauldin) says:

>>2. If your list of ten specific callsigns is exhausted by the time
>>your application makes it through the mill, your existing callsign becomes
>>the eleventh choice and you will be charged \$7.00 per year for the rest of
>>your life for the privilege of continuing to use your old callsign.

Are you sure about this? I didn't read it that way at all.

>>and my trying to get, say, K5EE, the shortest (in CW) callsign in the
>>United States.

To be picky, N5EE, NE5E and AE5E are even shorter.
W5EE and WE5E are the same length as your example.

And K5EE is alive and well and active on CW. The
only way you could get his call is if he wants to
give it up, and if he wants to give it up, you might
wonder why.

I just had 2000 QSL cards printed, I don't think I
want to change my call just yet...

Derek "cheap cheap" Wills (AA5BT, G3NMX)
Department of Astronomy, University of Texas,
Austin TX 78712. (512-471-1392)
oo7@astro.as.utexas.edu

Date: 7 Jan 94 14:01:28 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!cs.utexas.edu!not-
for-mail@network.ucsd.edu
Subject: Good Service
To: info-hams@ucsd.edu

After a bad experience with another company I thought I would relate a
good experience

I recently purchased and old Yaesu 301S QRP rig. I really am starting to
appreciate it. .The case is in good shape but some screws are missing
and some special fasteners on the top part of the case. Just for the
heck of it I thought I would call the toll free number and see If I
could get replacements. I was put through from the operator to parts
immediately. I explained to the gentleman what I was looking for. He
made sure he understood my request, took my name, address and phone
number and said he would reference them in the computer and send them
right out in the mail and enclose the bill... no charge on pre-payment..
.sounded good, but I got worried about the cost.. didn't want to spend
more than I paid for the radio. The gentleman said, the screws are about
5-10C each and the other parts not much more.. I decided to splurge.

And what should that program do ?
You are not looking for bpq packet switch ?

/Peter Enderborg, SM00HI

Date: 8 Jan 94 00:49:29 GMT
From: ogicse!emory!europa.eng.gtefsd.com!library.ucla.edu!news.ucdavis.edu!
othello.ucdavis.edu!ez006683@network.ucsd.edu
Subject: How does it work?
To: info-hams@ucsd.edu

These units were, if they are the ones I am thinking of, pioneered in the tire industry and by the British police. The patents are held by Hugh's and they are a little more complicated than has been so far indicated. They are also alterable via the readers. The British police used them to keep track of the football fans. They were given out as fan ID cards.

The police at the games could use some sort of hand held reader to mark fighting fans without telling them. The next time the fans went to a game the detectors at the gate would notify the police that a trouble maker was entering and give them his name. I this in the journal "Science" from around June 1990. I'm not at all sure this is the right date.

The tire industry used them to allow big trucking firms to keep a data base of tire histories. This way they would be able to tell how many times the tires had been retreaded, how many miles/months ago it had been last serviced, etc. While the readers are pretty expensive, I've heard that the actual IC's are around US\$.05-.10

In fact when I received my new computer a couple months ago there was the telltale sticker on one of the plastic baggiesthat came in one of the boxes. So it looks like Gateway 2000 uses the same technology to track their distribution.

If anybody missed the first part of the thread the initial post is included below

Cheers es 73
Dan

Richard Furuta (furuta@cs.tamu.edu) wrote:

: Well, maybe it's relevant to radio and maybe not, but I'm sure that
: someone here can explain this to me!

: I'm sure that many of you are familiar with the anti-theft stickers
: that have appeared especially on tapes and CDs. About an inch square,

: the adhesive-backed underside contains a set of concentric traces
: along the edge surrounded by a different colored border that blobs
: over one of the corners into the center. Disabling the device seems
: to involve sticking a patch of some sort on top of it.

: So what's the mechanism and how does it work?

: --Rick
: KE3IV
: furuta@cs.tamu.edu

--

```
*-----*
* Daniel D. Todd      Packet: KC6UUD@WA6RDH.#nocal.ca.usa      *
*                      Internet: DDTODD@ucdavis.edu             *
*                      Snail Mail: 1750 Hanover #102            *
*                      Davis CA 95616                          *
*-----*
*      I do not speak for the University of California....    *
*      and it sure as hell doesn't speak for me!!            *
*-----*
```

Date: 8 Jan 94 00:33:46 GMT
From: walter!dancer.cc.bellcore.com!not-for-mail@rutgers.rutgers.edu
Subject: Limit on amount of homebrew, was ...Re: TOYOTAS AND HAM RIGS
To: info-hams@ucsd.edu

In article <2gk163\$ku@news.acns.nwu.edu>,
Gregory Lapin <lapin@casbah.acns.nwu.edu> wrote:
>In article <9401071154.AA11626@cmr.ncsl.nist.gov>,
>Robert Carpenter <rc@cmr.ncsl.NIst.GOV> wrote:
>>WHERE DO I BUY FCC TYPE APPROVED HAM GEAR ????????

>All commercial ham gear must be FCC type approved (that's a rule that was
>changed from when I started in ham radio).
>
>If you look on any of your modern commercial gear you should see an FCC ID
>number on the tag with the serial number.
>
>The only non-type approved equipment that can be used is homebrew, and then
>only if you make one of a kind per year and hf+ (<144 MHz) external RF power
>amplifiers, again only one of a kind per year.
>Greg Lapin KD9AZ

Please note, there is NO limitation on the amount of homebrew equipment that any ham can build. I don't know where Greg got this idea, but it is totally incorrect as stated above. The ONLY limitation on homebrew equipment I am aware of is in the construction of 10 (11) meter linear amps. Perhaps that is what Greg was thinking of?

Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)
Morristown, NJ email via UUCP bcr!cc!whs70
201-829-2879 Weekdays email via Internet whs70@cc.bellcore.com

Date: 7 Jan 94 14:02:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS\$007.2L.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-007.N
2Line Orbital Elements 007.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX January 7, 1994
BID: \$ORBS-007.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83058B 94005.12150341 -.000000075 00000-0 10000-3 0 2390
2 14129 27.2067 348.0660 6021024 143.8064 278.2612 2.05878444 79423

U0-11

1 14781U 84021B 94005.59076342 .000000422 00000-0 79591-4 0 6451
2 14781 97.7949 27.8697 0013065 69.6655 290.5953 14.69115948526430

RS-10/11

1 18129U 87054A 93362.24286562 .000000047 00000-0 35308-4 0 8413
2 18129 82.9283 95.2053 0012703 133.8292 226.3913 13.72328759326464

A0-13

1 19216U 88051B 94004.70116240 -.000000337 00000-0 10000-4 0 8537
2 19216 57.8718 275.2489 7205805 332.1178 3.3712 2.09722778 42585

F0-20

1 20480U 90013C 93364.10373196 -.000000018 00000-0 32924-4 0 6409
2 20480 99.0174 183.0203 0541189 2.6742 357.7056 12.83223163182445

AO-21

1	21087U	91006A	94002.21124407	.000000094	000000-0	82657-4	0	4024
2	21087	82.9442	265.5312	0034603	184.9174	175.1647	13.74532105146782	

RS-12/13

1	21089U	91007A	94003.81201797	.000000013	000000-0	-16601-5	0	6449
2	21089	82.9224	133.3515	0028470	204.2513	155.7306	13.74032105146079	

ARSENE

1	22654U	93031B	93321.93138545	-.000000051	000000-0	10000-3	0	2108
2	22654	1.4185	113.8817	2935300	161.0091	211.2000	1.42195961	2757

UO-14

1	20437U	90005B	94005.38579769	.000000070	000000-0	44144-4	0	9440
2	20437	98.6022	92.3141	0010623	314.0719	45.9578	14.29814607206325	

AO-16

1	20439U	90005D	94005.72754607	.000000051	000000-0	36929-4	0	7456
2	20439	98.6104	93.7213	0011015	313.5668	46.4599	14.29870637206386	

DO-17

1	20440U	90005E	94002.19917332	.000000053	000000-0	37608-4	0	7448
2	20440	98.6107	90.5019	0011449	322.9054	37.1337	14.30007759205895	

WO-18

1	20441U	90 5 F	94005.74014108	.000000072	000000-0	35573-4	0	7295
2	20441	98.6102	94.0149	0011724	313.2067	46.8135	14.29985383206404	

LO-19

1	20442U	90005G	94005.51918470	.000000071	000000-0	44573-4	0	7442
2	20442	98.6116	94.0172	0012086	313.0601	46.9565	14.30078732206388	

UO-22

1	21575U	91050B	94005.74855109	.000000132	000000-0	59080-4	0	4450
2	21575	98.4531	83.4070	0008662	56.6893	303.5122	14.36879718129757	

KO-23

1	22077U	92052B	94002.16351446	-.000000037	000000-0	10000-3	0	3406
2	22077	66.0861	267.5903	0007830	328.5974	31.4576	12.86282748	65437

AO-27

1	22825U	93061C	94002.41089026	.000000028	000000-0	29480-4	0	2421
2	22825	98.6729	79.7643	0008661	340.3461	19.7388	14.27598458	14037

IO-26

1	22826U	93061D	94002.12352015	.000000048	000000-0	37498-4	0	2432
2	22826	98.6726	79.4914	0009286	340.8280	19.2572	14.27701091	13994

KO-25

1	22830U	93061H	94001.47087182	.000000044	000000-0	35071-4	0	2435
2	22830	98.5724	77.8609	0010938	310.1599	49.8622	14.28025206	13902

NOAA-9

1	15427U	84123A	94004.88072055	.000000114	000000-0	84883-4	0	6582
2	15427	99.0751	53.2732	0014731	323.5684	36.4491	14.13576766467270	

NOAA-10

1	16969U	86073A	94005.03264269	.000000088	000000-0	55595-4	0	5574
2	16969	98.5120	19.0011	0014259	84.5560	275.7243	14.24855080379375	

MET-2/17

1	18820U	88005A	94001.61189588	.000000083	000000-0	60731-4	0	2423
2	18820	82.5416	41.0968	0015539	292.3032	67.6473	13.84703832299304	

MET-3/2

1	19336U	88064A	94005.65843375	.000000051	00000-0	10000-3	0	2440
2	19336	82.5449	78.7070	0016262	312.3715	47.6029	13.16963362261865	

NOAA-11

1	19531U	88089A	94004.92011509	.000000096	00000-0	76385-4	0	4584
2	19531	99.1565	349.9679	0011085	230.8219	129.1969	14.12946589272167	

MET-2/18

1	19851U	89018A	94002.20370060	.000000075	00000-0	53970-4	0	2435
2	19851	82.5242	276.2482	0014430	338.9778	21.0787	13.84353419244722	

MET-3/3

1	20305U	89086A	93364.48539230	.000000044	00000-0	10000-3	0	9576
2	20305	82.5490	26.6237	0006048	3.1578	356.9573	13.04419292200902	

MET-2/19

1	20670U	90057A	94005.87923448	.000000024	00000-0	79036-5	0	7443
2	20670	82.5450	337.3863	0014678	242.2637	117.7035	13.84185748178162	

FY-1/2

1	20788U	90081A	94003.03844225	-.000000027	00000-0	10000-4	0	8621
2	20788	98.8453	28.3934	0015034	108.6050	249.2585	14.01339724170575	

MET-2/20

1	20826U	90086A	94005.74063050	.000000111	00000-0	87297-4	0	7431
2	20826	82.5267	275.2236	0013392	137.9258	222.2933	13.83569469165290	

MET-3/4

1	21232U	91030A	94005.83128273	.000000050	00000-0	10000-3	0	6519
2	21232	82.5467	284.3740	0011499	231.4753	128.5339	13.16458488129990	

NOAA-12

1	21263U	91032A	94004.08081272	.000000166	00000-0	93828-4	0	8642
2	21263	98.6370	35.3435	0013145	356.9160	3.1933	14.22352847137206	

MET-3/5

1	21655U	91056A	94005.68770103	.000000051	00000-0	10000-3	0	6470
2	21655	82.5545	231.4938	0012197	243.1016	116.8860	13.16826637115074	

MET-2/21

1	22782U	93055A	94001.96917156	.000000034	00000-0	17490-4	0	2435
2	22782	82.5480	338.1541	0022340	335.8493	24.1619	13.82995595	17110

MIR

1	16609U	86017A	94005.22314691	.00012629	00000-0	16182-3	0	723
2	16609	51.6193	284.4311	0005853	164.6911	195.4261	15.59559673450621	

HUBBLE

1	20580U	90037B	94004.90469308	.000001033	00000-0	88413-4	0	4158
2	20580	28.4684	204.6894	0006313	180.1183	179.9404	14.90410640	5005

GRO

1	21225U	91027B	94004.88663637	.000005841	00000-0	13675-3	0	427
2	21225	28.4636	284.9027	0003711	171.8955	188.1707	15.39742393	31735

UARS

1	21701U	91063B	94004.24257924	.000002801	00000-0	26628-3	0	4467
2	21701	56.9823	95.9801	0005475	107.2007	252.9626	14.96383081126392	

POSAT

1	22829U	93061G	94001.75322183	.000000049	00000-0	37763-4	0	2353
2	22829	98.6670	79.1269	0010186	328.1394	31.9170	14.27993596	13944

/EX

Date: 8 Jan 94 03:34:25 GMT
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!noc.near.net!
news.delphi.com!usenet@network.ucsd.edu
Subject: This Week in Amateur Radio Edition #41
To: info-hams@ucsd.edu

Here is a summary of news items covered on Edition #41 of "This Week in Amateur Radio", North America's satellite-delivered audio bulletin service, for the week ending 14-Jan:

1. FCC Releases Notice of Proposed Rule Making for "Vanity" Call Signs
2. ARRL Lists Landline Services Carrying Full Text of PR Docket 93-305
3. Commission Kills Club/Military Station Administration Program
4. AMSAT/WJ9F Announce Resumption of AO-16/Pacsat Experimenter's Days
5. League Opens Nominations for Brier Instructor/Teacher Awards
6. Packet Stations Reminded to Maintain BID Integrity of ARRL Bulletins
7. Taiwanese/Finnish Amateurs Activate Pratus Island, Team Includes OH2BH
8. "The RAIN Dial-up" from Chicago
9. Crew of 15th Main Expedition Scheduled for Launch to MIR Platform
10. "YL Spotlight" with Carli Drake, WB1BTJ
11. "EZSATS" with Dave Mullenix, N9LTD
12. OPDX/NODXA Present Third Annual DX Survey, Deadline is January 31st
13. "Gateway 160 Meter Net Report" with Vern Jackson, WA0RCR
14. Weekly Propagation Forecast with George Bowen, N2LQS
15. "DX Window" with John Yodis, K2VV
16. Membership in "FISTS" Swells to Over 1000, Morse Lovers Invited
17. DX News and Special Event Stations with George Bowen, N2LQS
18. "Amateur Radio Newsline" from Los Angeles - Edition #852
19. "DXing the AM and FM Broadcast Bands" - First in a Series

Funding for the program's transmission costs and production expenses were provided this week by a grant from Chris Huber, N6ICW, and the N6ICW Repeater Group of Sacramento, California, which carries "This Week in Amateur Radio" in South Lake Tahoe on 145.15 MHz and in Sacramento on 147.195 MHz.

"This Week in Amateur Radio" is a weekly amateur radio news and information service, in audio newsmagazine format, which is produced by Community Video Associates, Inc., a non-profit, charitable, tax-exempt foundation based in Albany, New York. The program is carried on the "Omega Radio Network" each Saturday at 7:30 PM (EST) on the Galaxy III commercial communications satellite, transponder 17 (9H), 5.8 MHz wideband audio (4.040 GHz), located at 93.5 degrees west longitude in geosynchronous orbit, and can be heard on various VHF/UHF repeaters throughout the United States and Canada, as well as on 160 meters. Contact your local amateur radio club or repeater operator if

"This Week in Amateur Radio" is not being heard in your area.

Production and transmission expenses are underwritten by contributions from repeater system operators, amateur radio clubs, and individuals. For further information, contact Stephan Anderman, WA3RKB, at 518/877-7374, George Bowen, N2LQS, at 518/283-3665, or Adrian Sebborn, N1JW0, at 413/458-8219. You may also reach them via amateur packet @ WA2UMX.#ENY.NY.USA.NA and on various landline bulletin board services.

Date: 6 Jan 1994 21:57:04 -0500
From: kb2ear.ampr.org!starcomm.overleaf.com!not-for-mail@princeton.edu
Subject: This Week on Spectrum 01/08/94
To: info-hams@ucsd.edu

This week's Spectrum will feature an interview with Ian Mcfarland. Ian has been a very popular fixture in the swl scene for almost a quarter of a century with his programs on Radio Canada International and Radio Japan. His following in the communications hobbyist community is great and you will have an opportunity to talk with him this Saturday on Spectrum.

Spectrum airs on WWCR 5.810 MHz at 03:00 UTC Sundays. If you have access to a satellite dish you can hear the program on the Omega radio network on Galaxy III transponder 17 at 5.8 wideband audio.

--

Spectrum, "The Communications Magazine You Read With Your Ears."
WWCR, Nashville, TN, USA, 5810 KHz.
Omega Radio Network, Galaxy III, Ch 17, 5.8 MHz., Wide Band Audio
03:00 UTC Sunday, 22:00 EST Saturday.
Box 722, Holmdel, NJ, 07733-0722, USA
spectrum@overleaf.com, askspectrum@attmail.com, spectrumshow@genie.geis.com
+1 800-787-SPECTRUM, +1 908-671-4209

Date: 8 Jan 94 03:36:16 GMT
From: news-mail-gateway@ucsd.edu
Subject: TOYOTAS AND HAM RADIO
To: info-hams@ucsd.edu

Ok, ok, so I'm stupid. Ham radios are now Type Accepted. Does this include a limitation on RF on the power cables (inside the ham bands) ??

73 and eating crow,
Bob W3otc

Date: 8 Jan 94 01:38:39 GMT
From: world!dbr@uunet.uu.net
Subject: What Kind of Antenna Is This?
To: info-hams@ucsd.edu

In article <1994Jan7.214214.17828@mnemosyne.cs.du.edu>,
richard chalk <rchalk@nyx10.cs.du.edu> wrote:
>dbr@world.std.com (Dan Reiner) writes:
>
>>A mobile antenna I've seen in various cities, almost exclusively on
>>municipal vehicles, looks sort of like a folded sheet of cardboard
>>lying upright on the long side. In other words, it's about four inches
>>high, ten inches long and maybe an inch thick.
>
>This is most likely a VHF Slot antenna, with the slot running horizontally
>under the bar. A horizontal slot will radiate Vertically polarized signals,
>and the biggest advantage of this design is low physical profile....ideal
>for Busses, etc.
>
>Richard
>

Thanks for the info, Richard. Do you know of any articles or published
construction info? If a ham antenna can be made low-profile enough,
radio thieves might ignore the car...not to mention carwashes.

Thanks again -- Dan.

Date: Fri, 7 Jan 1994 19:49:28 GMT
From: swrinde!cs.utexas.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!
moe.ksu.ksu.edu!osuunx.ucc.okstate.edu!datacomm.ucc.okstate.edu!
martin@network.ucsd.edu
To: info-hams@ucsd.edu

References <2gha6\$1rj3@news.tamu.edu>, <1994Jan6.221522.1@wcsu.ctstateu.edu>,
<CJ9u4M.6Jn@news.iastate.edu>
Subject : Re: How does it work?

I don't know for an absolute fact about the Card Key system
mentioned in an earlier post, but it is probably a RF-actuated device in
which the card reader illuminates the card with a radio frequency that
may or may not change frequently, but serves to provide electric power to the
identifier unit which is a small IC burried in the card along with a metallic

trace which serves as an antenna. When the card is near the reader, the RF field is rectified to form DC which powers the little transmitter in the card. This transmitter probably starts sending a series of digital bursts containing the unique serial number of the card.

If I am wrong, let's hear from somebody who knows more about it.

Oklahoma has a system called "Pikepass" in which one pays a turnpike toll by depositing money into an account. You, then, have a little palm-sized sealed device which fits on the driver's side windshield. When you drive through the toll booth area, you can just buzz right past the gate and a signal from a little dish mounted overhead wakes up your Pikepass and identifies your car, or rather, your account to the data base. When your account gets low, you get a note from the Turnpike Authority advising you that you need to feed the account, again, and you also see a sign which flashes "Low Balance" or something like that when you go through.

Each month, you get a statement from the Turnpike Authority showing where you used the system and how much money is left.

We have a Cardkey system at Oklahoma State University, but our cards are the magnetic stripe variety and don't appear to be anything special.

This is all pretty far off the subject, but the techniques used to make some of these electronic identifiers work do involve radio and are good examples of clever design.

Martin McCormick WB5AGZ Stillwater, OK
O.S.U. Computer Center Data Communications Group

Date: Fri, 7 Jan 94 22:23:34 GMT
From: ncrgw2.ncr.com!ncrhub2!torynews!kevin@uunet.uu.net
To: info-hams@ucsd.edu

References <2gepc1\$58r@cville-srv.wam.umd.edu>, <2gi3tr\$oe6@crcnis1.unl.edu>,
<gregCJ9M8u.9tv@netcom.com>
Subject : Re: Where's my QST?

In article <gregCJ9M8u.9tv@netcom.com> greg@netcom.com (Greg Bullough) writes:

>

>This solid technical content was selected by the same editorial staff
>(at the member's expense) which no doubt smugly belittles W2NSD's monthly
>ramblings in '73.'

>

>We can't cover Lambda, but choo-choos and stamps are relevant, eh guys?

>

Jeez, Greg, get a life. I see no smiley here, I guess you are just dying to open up that flame-bait can again. Sorry, you'll receive no help from me.

--

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End of Info-Hams Digest V94 #12
